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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/695,169	10/29/2003	You-Young Jung	1349.1266 7130		
21171	7590 02/17/2006	•	EXAMINER		
STAAS & H	ALSEY LLP	· WALLING, MEAGAN S			
SUITE 700 1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER	
	WASHINGTON, DC 20005			2863	

DATE MAILED: 02/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

				A		
		Application No. Applicant(s) 10/695,169 JUNG, YOU-YOUNG		<i>)</i>		
Office Actio	n Summary	Examiner	Art Unit			
		Meagan S. Walling	2863			
The MAILING DA Period for Reply	TE of this communication	appears on the cover sheet wit	h the correspondence addre	SS		
THE MAILING DATE OI - Extensions of time may be availanter SIX (6) MONTHS from the - If the period for reply specified and the period for reply is specified. - Failure to reply within the set or	THIS COMMUNICATIO lable under the provisions of 37 CFR mailing date of this communication. above is less than thirty (30) days, a dd above, the maximum statutory per extended period for reply will, by sta e later than three months after the ma	l 1.136(a). In no event, however, may a re	oly be timely filed (30) days will be considered timely. HS from the mailing date of this commuNDONED (35 U.S.C. § 133).	nunication.		
Status						
· — ·	mmunication(s) filed on 12	<u>2/1/05</u> .				
′ <u>=</u>	2a) This action is FINAL . 2b) ⊠ This action is non-final.					
· —		wance except for formal matte	·	erits is		
closed in accorda	nce with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims						
4)⊠ Claim(s) <u>2-6 and</u> ∂	8-17 is/are pending in the	application.				
4a) Of the above of	claim(s) is/are witho	drawn from consideration.				
5)⊠ Claim(s) <u>2-6 and</u> ∂	<u>8-12</u> is/are allowed.					
6)⊠ Claim(s) <u>13 and 1</u>	<u>7</u> is/are rejected.					
7)⊠ Claim(s) <u>14-16</u> is/						
8)	e subject to restriction an	d/or election requirement.				
Application Papers						
9) The specification is	s objected to by the Exam	niner.				
10)⊠ The drawing(s) file	d on <u>29 October 2003</u> is/a	are: a)⊠ accepted or b)⊡ ob	jected to by the Examiner.			
• • • • • • • • • • • • • • • • • • • •	, , ,	the drawing(s) be held in abeyand				
•	•	rection is required if the drawing(s	·			
11) The oath or declar	ation is objected to by the	Examiner. Note the attached	Office Action or form PTO-	152.		
Priority under 35 U.S.C. §	119					
12)⊠ Acknowledgment i a)⊠ All b)⊡ Some		ign priority under 35 U.S.C. §	119(a)-(d) or (f).			
·- <u>-</u> ·-	pies of the priority docum	ents have been received.				
	· · · · · ·	ents have been received in Ap	pplication No			
	•	oriority documents have been i		age		
application	from the International Bur	eau (PCT Rule 17.2(a)).				
* See the attached d	etailed Office action for a	list of the certified copies not r	eceived.			
Attachment(s) 1) ☑ Notice of References Cited (PTO 802)	A) Interview Co	ummary (PTO-413)			
2) Notice of Draftsperson's Pat		Paper No(s)	/Mail Date			

Paper No(s)/Mail Date

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

5) Notice of Informal Patent Application (PTO-152)

6) Other: _

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claim 17 is rejected 35 U.S.C. 112, second paragraph, for claiming both an apparatus and the method steps of using the apparatus. Claim 17 is not clear as to the product claim, but it's clear to the process of the method. See MPEP 2173.05(p).

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claim 17 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claim is directed to neither a "process" nor a "machine," but rather embraces or overlaps two different statutory classes of invention. See MPEP 2173.05(p).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 13 and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Okamoto et al. (US 6,989,845).

Regarding claim 13, Okamoto et al. teaches a motion detector detecting motion information values representing presence and absence of a motion for each pixel/block of an input nth image field (column 5, lines 24-27); and a motion calculator adjusting according to a formulaic value the detected motion information values of the input nth image field based upon motion information values of an input n+1th image field (column 5, lines 57-63 and Fig. 24).

Regarding claim 17, Okamoto et al. teaches removing spurious still regions and spurious motion regions during an image field motion detection, based upon a limited added to or a limited subtracted from, pixel motion information values of a current image field using only immediately preceding and succeeding image fields to the current image field (column 5, lines 40-44).

Allowable Subject Matter

4. Claims 14- 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The primary reason for the indication of allowability of claim 14 is the inclusion of the limitation that the motion calculator calculates a mixed valued (α) according to the adjusted detected motion information values of the input nth image field and outputs the mixed value to a deinterlacing processor outputting an image frame based upon the mixed value. It is this

limitation in the claimed combination that has not been found, taught, or suggested by the prior art of record that makes these claims allowable.

The primary reason for the indication of allowability of claim 15 is the inclusion of the limitation that the motion information values are adjusted according to a formula V(i,j) = V(i,j) + T1 or a formula V(i,j) = V(i,j) - T2, and wherein the V(i,j) represents a motion information value for jth pixel on line ith of the input nth image field, and T1 and T2 are random first and second values within a predetermined range, respectively. It is this limitation in the claimed combination that has not been found, taught, or suggested by the prior art of record that makes these claims allowable.

5. Claims 2-6 and 8-12 are allowed.

The following is an examiner's statement of reasons for allowance: Please see the previous office action and applicant's response for reasons for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Meagan S. Walling whose telephone number is (571) 272-2283. The examiner can normally be reached on Monday through Friday 8:30 AM to 5 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

msw

BRYAN BUI PRIMARY EXAMINER

Dra.